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PREDICTIONS FOR THE SOLAR ECLIPSE OF JULY
29, 1897, LICK OBSERVATORY AND
SAN FRANCISCO.

BY C. D. PERRINE.

The eclipse of July 29, 1897, which is visible in the tropics as an annular eclipse, is visible in the United States as a partial one. I have computed the following circumstances for the Lick Observatory and San Francisco—the Davidson Observatory—from the elements of the eclipse given by the *American Ephemeris*, taking into account the altitude in the computations for the Lick Observatory. The altitude in this case has nearly the maximum effect at the time of first contact, and makes a difference of about 1.5 seconds.

Prediction for Lick Observatory.

Eclipse begins	5 ^h 25 ^m 1 ^s A.M., P. S. T.
Greatest obscuration	6 14 44
Eclipse ends	7 9 21
Amount of greatest obscuration	0.387 of solar diameter.
Position-angle of beginning	246° 37'
Position-angle of ending	140 15

Prediction for Davidson Observatory, San Francisco.

Eclipse begins	5 ^h 26 ^m 23 ^s A.M., P. S. T.
Greatest obscuration	6 15 21
Eclipse ends	7 8 27
Amount of greatest obscuration	0.386
Position-angle of beginning	245° 19'
Position-angle of ending	141 30

(Position-angles are reckoned from the north point through the east.)

February 19, 1897.